DAG DIALOGs – Uncertainty and Risk Management

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DAG (Defense Acquisition Guidebook) Dialogs are a part of our Tacit Knowledge Project, an effort by the Defense Systems Management College (DSMC), a part of the Defense Acquisition University (DAU), to capture tacit knowledge. Our goal is to create an ongoing dialog in the DoD Acquisition workforce about the tacit knowledge that is key to help leaders and teams more effectively and efficiently execute the explicit knowledge covered in the DAG, DoD instructions, and policy.

If you want to comment on the videos, you will need to go to the DAU Media server https://media.dau.mil/ (Kaltura commercial software) and log on with your CAC card or DAU Logon. We encourage you to leave a comment on the PM CoP site, which you also need to log into. You do not need to log in to watch the videos or indicated if you like them. You can send this document or the links below to anybody in your network. Enjoy and please join the dialog!

Uncertainty and Risk Management (Set 1)
In this series, Professor Pat Barker (patrick.barker@dau.mil), Professor John Driessnack (john.driessnack@dau.mil), and David Lengyel (dmlengyel@icloud.com), prior NASA Knowledge Manager, discuss their experiences with uncertainty and risks and how one can handle the challenges (Driessnack's broader term). Each record several monologs on there specific interests, then the group discusses (broken into two sessions) their various monologs and how they are related. They discuss sharing knowledge and linking the risk and opportunity data across the functions on a program team. The connections between there monologs and how program team can execute a robust risk management program are discussed. Finally, they discuss how risk management approach can be beneficial to the program team.

Each playlist below brings up a list of videos with individual descriptions. You can select which videos you would like to listen to.

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Additional material relative to these videos will be posted in the near future within the PM CoP library and the links added to this document.

You can see individual videos by going to the DAU Media site (https://media.dau.mil/) and searching by topic/name, or to the PM Channel at https://media.dau.mil/channel/Program%2BManagement/62961641

This document is managed by John Driessnack, john.driessnack@dau.mil
Professor John Driessnack

An Introduction to CAIRO and CREST (John Driessnack 1 of 3)

Professor John Driessnack introduces his two mnemonics, CAIRO (constraints, assumptions, issues, risks and opportunities) and CREST (Challenges, Resources, Evaluation, Schedule, Technical). He uses these mnemonics to help him assess and manage at all levels of programs, projects, and control accounts.

How CAIRO and CREST were developed (John Driessnack 2 of 3)

Professor John Driessnack discusses his experiences over the past 40 years how the mnemonics CAIRO (constraints, assumptions, issues, risks and opportunities) and CREST (Challenges, Resources, Evaluation, Schedule, Technical) were developed and why.

Implementing CAIRO and CREST (John Driessnack 3 of 3)

Professor John Driessnack discussed how he implements the concepts of CAIRO (constraints, assumptions, issues, risks and opportunities) and CREST (Challenges, Resources, Evaluation, Schedule, Technical) across program, projects, and control accounts.

Professor Pat Barker

How Situational Awareness relates to Risk Management (Pat Barker 1 of 5)

Professor Pat Barker introduces the concepts of situational awareness and risk management. He introduces the Gary Klein's intuition research and Gary Boyd's OODA loop.

Magnificent 7 questions to ask to clarify Risk (Pat Barker 2 of 5)

Professor Pat Barker discusses his magnificent 7 questions.

How Intuition can be used to assist in Risk Management (Pat Barker 3 of 5)

Professor Pat Barker discusses Gary Klein's research into intuition, and how intuition can assist with risk management

Using Intuition and OODA Loops for Risk Management (Pat Barker 4 of 5)

Professor Pat Barker discusses Gary Klein and John Boyd with intuition and OODA (Observer, Orient, Decide, and Act) loops, and how these can be used within a risk management program.

Improving Trust using ODDA Loops (Pat Barker 5 of 5)

Professor Pat Barker discusses Gary Boyd and trust and OODA (Observer, Orient, Decide, and Act) loops trusted and shared.

Mr David Lengyel

Four Research Paths in Risk Management (David Lengyel 1 of 3)

This document is managed by John Driessnack, john.driessnack@dau.mil
Dave Lengyel discusses his four research paths in risk management. First is multi-attribute utility theory, second is development and utilization of risk matrixes (5x5), the third is mishaps to change organizational processes, and finally, the integration of risk and knowledge management. Dave discusses how his research can inform you when you're doing risk management.

Risk Attitude (Dave Lengyel 2 of 3)

Dave Lengyel further discusses his research and risk attitudes using multi-attribute utility theory. He discussed what drives risk decisions on some NASA programs.

David Lengyel Background (David Lengyel 3 of 3)

Dave discussed his background and how he got to looking at risk management.

RISK MANAGEMENT Dialog with Pat, John and Dave

Uncertainty and Risk Management Dialog (1 of 2)

Pat leads the discussion between John, Dave, and himself on risk management and the various monologs each recorded. The group discusses sharing knowledge and linking the risk and opportunity data across the functions on a program team. The group discusses the connections between there monologs and how program team can execute a robust risk management program.

Uncertainty and Risk Management Dialog (2 of 2)

Pat continues the discussion between John, Dave, and himself on risk management and the various monologs each recorded. The group discusses how what they have discussed into a program office. The group discusses how risk management approach can be beneficial to the program team.